PATENT COOPERATION TREATY



PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

		PCT	
anslation	INTERNATIONAL PRELI	MINARY EXAMIN	ATION REPORT
	(PCT Art	icle 36 and Rule 70)	
Applicant's or agent's f VCstsF1	FOR FURTHE	FOR FURTHER ACTION See Notification of Transmittal of Internal Preliminary Examination Report (Form PCT/IPEA)	
International application PCT/FR200	•	g date (day/month/year) 2003 (07.11.2003)	Priority date (day/month/year) 08 novembre 2002 (08.11.2)
International Patent Cla C07H 15/18	ssification (IPC) or national classification	n and IPC	
Applicant	TS	PHARMA	
amende 70.16 ar	ort is also accompanied by ANNEXES, d and are the basis for this report and/or and Section 607 of the Administrative Instances consist of a total of	sheets containing rectificatructions under the PCT).	
3. This report con I II III	tains indications relating to the followin Basis of the report Priority Non-establishment of opinion with regulations and the second		ep and industrial applicability
v □ vi □ vii □ viii □	Reasoned statement under Article 35(2 citations and explanations supporting statement documents cited Certain defects in the international application observations on the international	lication	ventive step or industrial applicability
v 🗵 vı 🗌 vıı 🗎	Reasoned statement under Article 35(2 citations and explanations supporting statement documents cited Certain defects in the international application observations on the international	lication	
V VI VII VIII Date of submission of	Reasoned statement under Article 35(2 citations and explanations supporting statement documents cited Certain defects in the international application observations on the international	lication al application Date of completion of	

International application No.

PCT/FR2003/003335

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

I. Basis of the report								
1.	With	regard to	the elements of the international application:*					
		the international application as originally filed						
	\boxtimes	the desc	ription:					
		pages	1-35	, as originally filed				
		pages		, filed with the demand				
magaa			, filed with the letter of					
	\boxtimes	the clair	ns:					
	_	pages	1-14	, as originally filed				
		pages	, as amended (together wi					
		pages						
		pages	, filed with the letter of	(V.)				
	\boxtimes	the drav	vings:					
		pages	1-13	, as originally filed				
		pages		, filed with the demand				
		pages	, filed with the letter of					
	$\prod t$	he sequer	nce listing part of the description:					
		pages		as originally filed				
		pages						
		pages	, filed with the letter of					
	These	the lang the lang the lang or 55.3)	guage of a translation furnished for the purposes of international search (under Rule guage of publication of the international application (under Rule 48.3(b)). Guage of the translation furnished for the purposes of international preliminary ex	which is: 23.1(b)). camination (under Rule 55.2 and/				
		contain	ed in the international application in written form.					
		filed to	gether with the international application in computer readable form.					
		furnishe	ed subsequently to this Authority in written form.					
	Ц	furnishe	ed subsequently to this Authority in computer readable form.					
[stement that the subsequently furnished written sequence listing does not go ional application as filed has been furnished.	beyond the disclosure in the				
	Ш	The sta	tement that the information recorded in computer readable form is identical to mished.	the written sequence listing has				
4.		The am	endments have resulted in the cancellation of:					
		t	he description, pages					
		t	he description, pageshe claims, Nos					
			he drawings, sheets/fig					
5.		This rep	ort has been established as if (some of) the amendments had not been made, since the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**	they have been considered to go				
*	Repla in thi and 7	is report	heets which have been furnished to the receiving Office in response to an invitation as "originally filed" and are not annexed to this report since they do not c	n under Article 14 are referred to contain amendments (Rule 70.16				
**			nt sheet containing such amendments must be referred to under item 1 and annexed	l to this report.				

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International Application No.

PCT/FR 03/03335

1 - 14

NO

YES

NO

V.	Reasoned statement under Article 35(2) with regard to novelty, inventive step of industrial applicability, citations and explanations supporting such statement							
1.	Statement							
	Novelty (N)	Claims	1-14	YES				
		Claims		NO NO				
	Inventive step (IS)	Claims	1-14	YES				
	mitomito prob (10)							

Citations and explanations

Industrial applicability (IA)

Reference is made to the following document:

Claims

Claims

Claims

D1: O.Ouari et al. J. Org. Chem. 64 (1999) 3554-3556

D1, which is considered the prior art closest to the subject matter of claims 1 to 14, describes an amphiphilic derivative of α -C-phenyl-N-tert-butyl nitrone.

Therefore the subject matter of claims 1 to 14 differs from this known subject matter in that it concerns compounds as in D1 with the tert-butyl modified.

Consequently the subject matter of claims 1 to 14 is novel (PCT Article 33(2)).

The problem addressed by the present invention can thus be considered that of synthesising alternative compounds intended to prevent or treat diseases associated with oxidative stress.

The solution to this problem proposed in claims 1 to 14 of the present application is considered to involve an inventive step (PCT Article 33(3)) for the following

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/FR 03/03335

reasons:

In light of D1, it is not obvious for a person skilled in the art to use the derivatives as in claims 1 to 14 to solve the problem of interest. Moreover, the synthesis of the D1 derivative presents problems which make its production on an industrial scale difficult to imagine (page 4 of the description).